

WHAT IS CLAIMED IS:

1. A battery which comprises an electrode body made of lamination of a sheet-like positive electrode and a sheet-like negative electrode through a separator, a battery can
5 body comprising a depression provided with a flange portion at a circumference part thereof for accommodating at least a part of said electrode body together with an electrolyte and a metal lid provided with a circumference portion used for sealing an opening of said can body by jointing said flange
10 portion and the corresponding circumference portion thereof,

wherein one end of each lead element connected to said positive and negative electrode respectively is drawn out from said can body through a space formed at a surface part of said jointed flange section and the area of said flange
15 section around the drawing space is sealed by a resin bonding .

2. The battery according to claim 1, wherein said positive electrode and/or negative electrode have a metal foil as a collector, which extension part serves as said lead
20 element.

3. The battery according to claim 1 or 2, wherein the drawn end of said lead element is located on the flange section or in a space which intersects perpendicularly with said flange section.

25 4. The battery according to claim 1, wherein output

terminals are located on the flange section or in a space which intersects perpendicularly with said flange section and electrically connected to each drawn end of the leads.

5 5. The battery according to claim 1, wherein the other part of the jointed flange section except around the drawing space is sealed by at least one of means selected from the group consisting of a laser welding, an ultrasonic welding, a resistance welding, friction churning junction, and a pressure welding.

10 6. The battery according to claim 5, wherein the jointed flange section is provided with a double sealing portion made of a preliminary inside resin sealing in addition to the sealing made by means of claim 5.

15 7. The battery according to claim 1, wherein at least one of the flange portion of said can body or the circumference portion of said metal lid has an extension part capable of being folded back in the direction where the other portion of the jointed flange section may be overlapped further.

20 8. The battery according to claim 7, wherein at the folded back portion of the jointed flange section, at least a part of said can body and said metal lid is sealed by resin.

25 9. The battery according to claim 1, wherein said can body and/or metal lid are formed by means of shallow drawing of a metal plate.

10. The battery according to claim 1, wherein said metal lid and the surface of the can body which is opposite thereto are formed to have convexes toward the interior of the battery and the amount of deformation of the central projection is 0.05-0.3 mm.

11. The battery according to claim 1, one of the flange portion and the jointed flange section is wider 1mm or more than the other flange width.

12. The battery according to claim 11, wherein said electrode body is formed in a cross-sectional shape of ellipse in a direction perpendicular to a winding axis of said electrode body by winding laminating of the sheet-like positive electrode and the sheet-like negative electrode through the separator and is accommodated in said can body so that the winding axis of said electrode body is positioned parallel to the broader flange portion or jointed flange section and the winding terminations of said positive electrode and/or said negative electrode are located at the side of the broader flange portion.

13. The battery according to claim 11 or 12, wherein the drawing space for lead is provided in the broader flange portion or jointed flange section.

14. The battery according to claim 1, wherein a safety valve is provided at a part of said can body or said metal lid so as to be open for releasing battery internal pressure

outside of the battery when a battery internal pressure goes up more than a predetermined pressure.